

## CLAIMS

1. Installation for welding in a chamfered joint (2) comprising a laser (10), a filler metal wire (6) and a wire guide electrode (8), characterised in that it comprises a head (1) capable of penetrating into the chamfer, extended along the longitudinal and depth directions of the chamfer and narrow in a transverse direction of the chamfer, two central drillings (13, 15) passing through the head essentially in the depth direction, but converging towards each other under the head, one of the drillings being aligned with the laser (10) and the other of the drillings containing the electrode (8), and two pipes (21, 22) for ejection of a protection gas passing through the head and ending up in front and behind the central drillings.

2. Welding installation according to claim 1, characterised in that it comprises a micrometric table (12), arranged on the head, for adjusting the position of a laser optical head (11) above the central drilling that is aligned with the laser.

3. Welding installation according to any one of claims 1 or 2, characterised in that the head comprises a central recess (16) in which the central drillings end up.

4. Welding installation according to any one of claims 1 to 3, characterised in that two cooling

pipe networks (17, 18) pass through the head in front and behind the central drillings.

5. Installation according to any one of  
5 claims 1 to 4, characterised in that the laser welding means are chosen from among means using a YAG or CO<sub>2</sub> type source, and electric arc welding means are chosen from among MIG or MAG type means.